|            |                     |            |            |              |          |          |          |            |          |          |                |             | 10/606,854 |               |              |              |         |              |     |          |            | HARTLOVE ET AL. |          |          |        |                    |              |                 |     |
|------------|---------------------|------------|------------|--------------|----------|----------|----------|------------|----------|----------|----------------|-------------|------------|---------------|--------------|--------------|---------|--------------|-----|----------|------------|-----------------|----------|----------|--------|--------------------|--------------|-----------------|-----|
|            |                     |            |            |              |          |          |          |            |          |          |                |             | E          | Examiner      |              |              |         |              |     |          |            |                 | Art Unit |          |        |                    |              |                 |     |
|            |                     |            |            |              |          |          |          |            |          |          |                |             | Т          | Tuan N Nguyen |              |              |         |              |     |          |            |                 | 2828     |          |        |                    |              |                 |     |
|            |                     |            |            | <del>-</del> | 7        |          | _        | _          |          |          |                |             |            | -             | 1            |              |         |              |     |          | 1          | _               |          |          |        |                    | 7            |                 |     |
|            | 1                   | Rejected _ |            |              |          |          | (Thro    | ral)       |          |          | N              | Non-Elected |            |               |              |              | A       | Appeal       |     |          |            |                 |          |          |        |                    |              |                 |     |
|            | =                   | Allowed +  |            |              |          |          |          | Restricted |          |          |                |             |            |               | 1            | Interference |         |              |     | 0        | Objected   |                 |          | ]        |        |                    |              |                 |     |
|            | _                   |            |            |              |          |          |          |            | _        |          |                |             |            |               |              |              |         | ᅼ            |     |          |            |                 |          |          | _      |                    |              |                 |     |
| Claim      | ╁                   | Date       |            |              |          |          | Т        | Н          | Ctaim    |          |                |             | Dat        |               |              | <del>)</del> |         |              | aim | ┝╌       | Date       |                 |          | 1        | _      | 1                  | ·            |                 |     |
| Final      | 1/31/05             |            |            |              |          |          |          | 11         | Finat    | <u> </u> | l              |             |            |               |              |              | ĺ       |              |     | Final    | ja<br>Ja   |                 | l.       |          | ı      | ı                  | 1            | ı               |     |
| 0          |                     |            |            |              |          |          | ĺ        |            | =        | Original |                |             |            |               |              |              |         |              |     | 표        | Original   |                 |          |          |        |                    |              |                 |     |
|            |                     |            | T          | Ļ            | F        | F        |          |            |          | 51       |                |             |            |               |              | $\Box$       | $\perp$ | I            | ] ] |          | 101        |                 |          |          | 1      | 工                  | 上            |                 |     |
| 1 1        | < <                 | +          | ╁          | ╁            | ╀        | ⊢        | ┝        | H          | -        | 52<br>53 | ├              | -           |            | Н             | _            | -            |         | +            | -   |          | 102<br>103 | -               | +-       | $\dashv$ | 4      | 4                  | ╀-           | ╀               | l · |
| 4          | Ϊ́                  | +          | +          | 1-           | ╆        | H        | ┢        | Н          | -        | 54       | ┢              | H           | Н          | H             | ┪            | +            | +       | ╁            | ┨   | -        | 103        | $\forall$       | +-       | $\vdash$ | +      | ╁                  | +-           | ╁               |     |
| 5          | V                   |            |            |              |          |          |          |            |          | 55       |                |             |            |               |              |              | 士       |              | 1   |          | 105        |                 |          | $\neg$   | +      | +                  | +            | t               | 1   |
| 6          | V                   | 4          | +          | ↓_           | ┞        | _        | L        | Ц          |          | 56       |                | $\Box$      |            |               |              | $\Box$       | I       | L            | ]   |          | 106        | $\Box$          |          |          | I      | I                  | I            |                 | ļ   |
| 8          | <<                  | +          | ╁╌         | ╫            | ╀        | ╀        | ⊢        | Н          | <u> </u> | 57<br>58 | ⊢              | ⊣           | Н          | Н             | 4            | +            | +       | +            | -   |          | 107<br>108 | -               | $\dashv$ | +        | +      | 4                  | ╄            | $\vdash$        | ŧ   |
| 9          | ₩                   | +          | 十          | +            | H        |          | H        | Н          | -        | 59       | $\vdash$       | Н           | Н          |               | ┪            | +            | +       | +            | 1   | $\vdash$ | 109        | +               | +        | -        | ╁      | +                  | ╀            | ╁╌              |     |
| 10         | V                   |            |            |              | T        |          |          | Ħ          |          | 60       |                |             |            |               | ┪            | 寸            | 十       | T            | 1   |          | 110        | $\dashv$        | 11       | $\top$   | t      | ╅                  | 十            | $\vdash$        |     |
| 10         | N                   | _          | $\perp$    | Į.           | I        |          | 匚        | П          |          | 61       |                |             |            | $\Box$        | $\square$    | $\Box$       |         | L            | ]   |          | 111        |                 |          |          | 1      |                    |              | ·               |     |
| 12         | N                   | +          | ╀          | ╄            | ┡        | <u> </u> | L        | Н          | $\vdash$ | 62       | L              | Н           | Н          | $\dashv$      | 4            | _            | _       | ╄            | 4 1 |          | 112        | $\Box$          | Ш        |          | Ţ      | $\perp$            | L            | $\Box$          |     |
| 114        | N                   | +          | ╁┈         | ╁            | $\vdash$ |          | H        | Н          | $\vdash$ | 63<br>64 | $\vdash$       | Н           | Н          | $\dashv$      | -            | $\dashv$     | ╁       | ╀            | - 1 |          | 113        | -               | +        | $\dashv$ | +      | +                  | ╄            | Н               |     |
| 15         | N                   | +          | t          | t            | 1        |          | H        | Н          | -        | 65       |                | Н           | Н          | $\dashv$      | ┪            | +            | +       | +            | 1   |          | 115        | $\dashv$        | +        | -+-      | +      | ╁                  | +            | Н               |     |
| 16         | N                   |            |            |              |          |          |          |            |          | 66       |                |             |            |               | _            |              | $\top$  | T            | 1   |          | 116        | $\dashv$        | + 1      | $\dashv$ | 十      | +                  | +            | Н               |     |
| 17         | N                   | $\perp$    | $\perp$    |              |          | П        |          | П          |          | 67       |                |             |            |               |              | $\Box$       |         |              | ] [ |          | 117        |                 |          |          |        | I                  |              |                 |     |
| 18         | Z                   | +          | 4-         | ⊢            | -        | _        | L        | Н          |          | 68       | Н              | Н           | Н          | -             |              | 4            | $\bot$  | 4            | 4   |          | 118        | 4               | $\perp$  |          | Ţ      | $\perp$            | Γ            | П               | l   |
| 20         | N                   | +          | ╁          | ╁            | ╁        |          | -        | Н          | -        | 69<br>70 | Н              |             | Н          | $\dashv$      | $\dashv$     | $\dashv$     | ┿       | ╀            | 1   |          | 119<br>120 | +               | ┦┦       |          | +      | ╁                  | ╁            | Н               |     |
| (21)       | V                   | +          | T          | t            | ┪        | Н        | H        | H          |          | 71       | Н              | Н           | Н          | 1             | $\dashv$     | 十            | 十       | 十            | 1 1 | _        | 121        | $\dashv$        | +        | -+       | +      | +                  | ╁╌           | Н               |     |
| 22         | V                   |            |            | 匚            |          |          |          |            |          | 72       |                |             |            |               |              | 1            |         |              | 1 [ |          | 122        | T               |          |          | Ť      |                    | T            | П               |     |
| 23         | V                   | 4          | 1          | <u> </u>     | <u> </u> | Ш        |          | Ц          | L        | 73       |                | Ш           | $\Box$     | _             |              | 4            | $\perp$ | oxdot        | ] [ |          | 123        | $\Box$          |          |          | I      | $\perp$            |              |                 |     |
| 24<br>25   | V                   | +          | +          | -            | ⊢        | Н        | $\vdash$ | Н          |          | 74<br>75 | Н              | Н           | $\dashv$   | $\dashv$      | -            | -+           | +       | ╀            | 1 1 |          | 124        | +               | +        |          | $\bot$ | 4-                 | ╀            | Н               |     |
| 26         | N                   | +          | +          | $\vdash$     | -        | Н        | $\vdash$ | Н          | $\vdash$ | 76       | Н              | Н           | $\dashv$   | $\dashv$      | ┪            | ╅            | +       | ╁            | 1   |          | 125<br>126 | $\dashv$        | +        | +        | ╀      | +-                 | ╀            | Н               |     |
| 25<br>27   | V                   |            | $\uparrow$ |              |          | Н        |          | П          | -        | 77       |                | Н           |            | $\dashv$      | 7            | 十            | ┪       | +            | 1 1 |          | 127        | ╅               | +        | $\dashv$ | ╁      | +                  | ╁            | Н               |     |
| 28         | V                   | $\perp$    |            |              |          |          |          |            |          | 78       |                |             |            |               |              | $\Box$       |         | $\perp$      | 1 [ |          | 128        |                 |          |          | İ      |                    |              |                 | I   |
| 29         | V                   | +          | ╀          | +            | _        | Ш        |          | Н          |          | 79       | Ш              | Н           | _          | 4             | 4            | 4            | $\perp$ | L            | 11  |          | 129        | $\perp$         | $\bot$   | $\perp$  | Ţ      | $oldsymbol{\perp}$ |              |                 | ı   |
| 30         | V                   | +          | ╁          | Ė            | $\vdash$ | Н        | Н        | $\dashv$   | $\vdash$ | 80       | Н              | Н           | +          | +             | +            | +            | +       | ╀            | ┨   | -        | 130        | +               | ╅┥       | +        | +      | +                  | ╀            | $\vdash$        |     |
| 32         | ۱                   | 十          | T          | 1            |          | H        | Н        | $\dashv$   |          | 82       | -              | Н           | -          | $\dashv$      | 7            | 十            | +       | $\vdash$     | 1 } | $\neg$   | 132        | +               | ╁┼       | -        | ╁      | +                  | ╫            | Н               |     |
| 32<br>(33) |                     |            |            |              |          |          |          |            |          | 83       |                |             |            |               | T            |              | T       |              | 1 1 |          | 133        | 十               | 11       | $\top$   | †      | ✝                  | t            | Н               |     |
| 34         | ٧                   | 4          | L          | Ļ            |          |          |          | $\Box$     |          | 84       |                |             |            | $\Box$        | $\Box$       | $\perp$      | $\perp$ | $\Box$       | ] [ |          | 134        |                 | $\Box$   |          | Ι      |                    |              |                 |     |
| 35         | <b>V V</b>          | +          | ╁          | H            | <u> </u> |          | Н        | $\dashv$   |          | 85       | Н              | Н           | -          | +             | 4            | +            | +       | ₽            | ┨   |          | 135        | 4               | +        | 4        | ╀      | ╄                  | ↓_           | Ц               |     |
| 37         | V                   | ╅          | ╁╴         | $\vdash$     | Н        | $\vdash$ | -        | $\dashv$   |          | 86<br>87 | Н              | $\vdash$    | ┪          | $\dashv$      | +            | ╁            | +       | ╁            | ┨╏  |          | 136        | +               | ╫        | +        | ╀      | ┿                  | ╀            | $\vdash$        |     |
| 38         | V                   | _          | ✝          |              | П        |          |          | $\dashv$   |          | 88       | $\neg \dagger$ |             | ┪          | $\dashv$      | $\forall$    | $\dashv$     | 十       | ╁╴           | 1 1 | -        | 138        | +               | ++       |          | +      | +-                 | $\vdash$     | Н               |     |
| 39         |                     |            |            |              |          |          |          |            |          | 89       |                |             |            |               |              |              |         |              | 1   | $\Box$   | 139        | $\top$          | $\top$   | _        | t      | +                  | T            | П               |     |
| <b>6</b> 0 | $\vdash$            | $\bot$     | ┞.         | Ц            |          | $\sqcup$ |          | _          |          | 90       | $\Box$         |             | _          | 4             | $\downarrow$ | $\perp$      | $\bot$  | $oxed{\Box}$ | ] [ | $\Box$   | 140        | T               | $\Box$   |          | Ι      | $\perp$            |              | 口               |     |
| 41         | ${oldsymbol{dash}}$ | +          | ╀╌         | Н            | Н        | $\dashv$ | _        | $\dashv$   | -        | 91       | Н              | $\dashv$    | 4          | +             | +            | +            | +       | -            | Į ļ | _        | 141        | 4               | +        | $\perp$  | 1      | 1                  | $\vdash$     | Ш               |     |
| 43         | $\vdash \vdash$     | +          | ╁╌         | Н            | Н        | $\dashv$ | $\dashv$ | $\dashv$   | $\vdash$ | 92<br>93 | $\dashv$       | $\dashv$    | $\dashv$   | +             | +            | +            | +       | ╁            | {   | $\dashv$ | 142        | +               | ╂╌╂      | +        | ╀      | +-                 | $\vdash$     | Н               |     |
| 44         |                     | 土          |            |              |          |          |          |            |          | 94       | ╛              |             | _†         | _             | 1            | +            | $\top$  | t            | 1   |          | 144        | 十               | ++       | +        | t      | +                  | 1            | Н               |     |
| 45         | Ц                   | T          |            | Ц            |          | $\Box$   | $\Box$   | $\Box$     |          | 95       | $\Box$         | コ           | $\Box$     | 二             | $\Box$       |              | I       | 匚            | ] [ |          | 145        |                 | $\Box$   | 工        | I      | 工                  |              | П               |     |
| 46         | $\vdash \downarrow$ |            | ╀          | Н            | Н        | $\dashv$ | 4        | 4          |          | 96       | _              | 4           | 4          | 4             | 4            | 4            | 4       | L            |     |          | 146        | $\perp$         | +        | $\perp$  | Ĺ      | $\perp$            | $\Box$       | $\Box$          |     |
| 47         | +                   | ╁          | ╁─         | Н            | Н        | $\dashv$ | $\dashv$ | $\dashv$   | -        | 97<br>98 | 4              | -+          | +          | +             | +            | +            | +       | ┡            | {   |          | 147        | +               | +        | +        | +      | +-                 | <del> </del> | $\vdash \vdash$ |     |
| 49         | $\dashv$            | +          |            | Н            | Н        | $\dashv$ | ┥        | $\dashv$   |          | 99       | $\dashv$       | ┥           | $\dashv$   | +             | +            | +            | +       | $\vdash$     | H   |          | 148        | +               | ╅┩       | +        | ╁      | +-                 | $\vdash$     | Н               |     |
| 50         | $\vdash$            | $\top$     | ✝          | П            | Н        | $\dashv$ | ┪        | $\dashv$   | $\vdash$ | 100      | $\dashv$       | 7           | ┪          | 十             | +            | +            | +       | t            | 1 } |          | 150        | +               | ╅┪       | +        | +      | +                  | $\vdash$     | Н               |     |

Application No.

Index of Claims

Applicant(s)